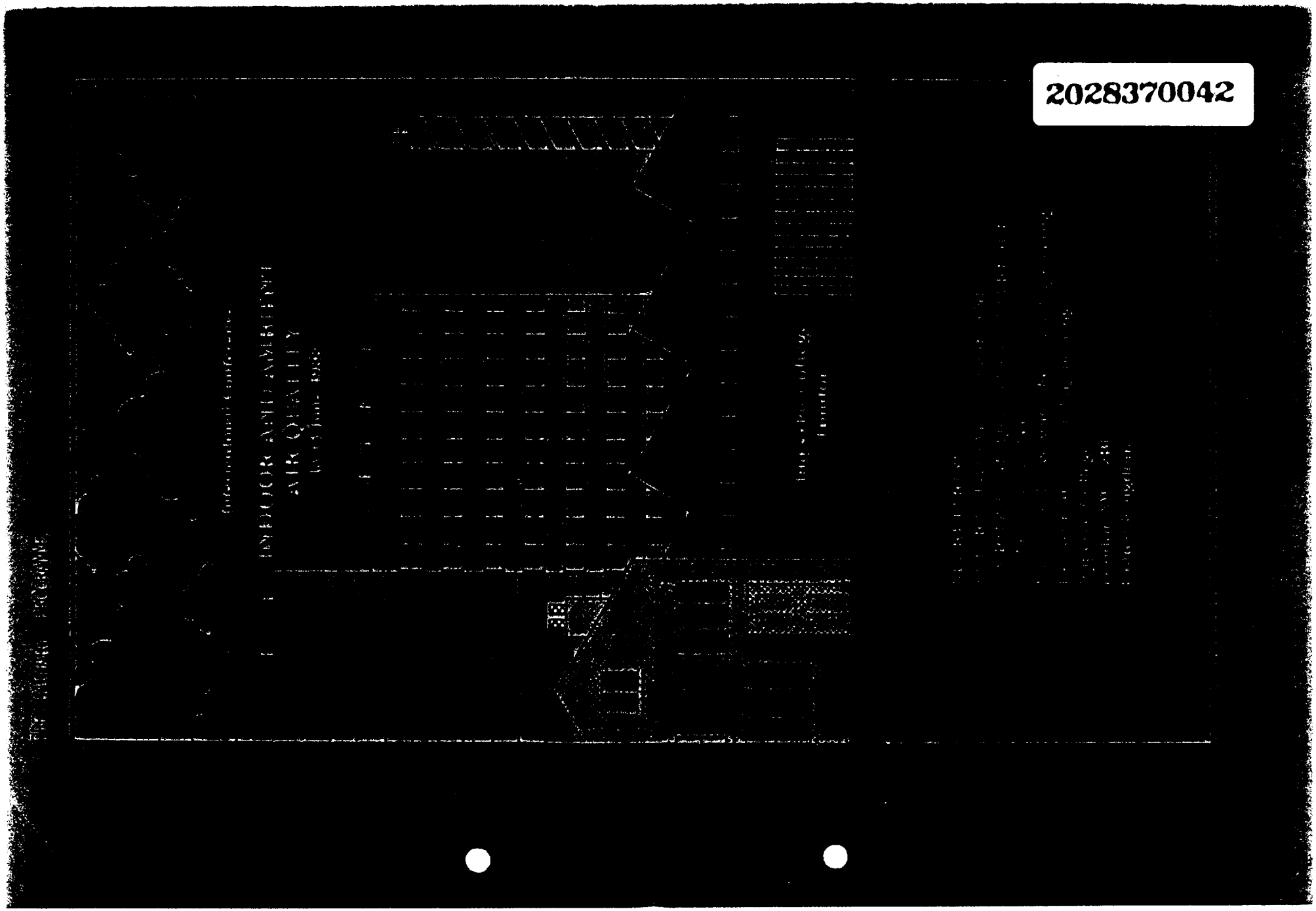

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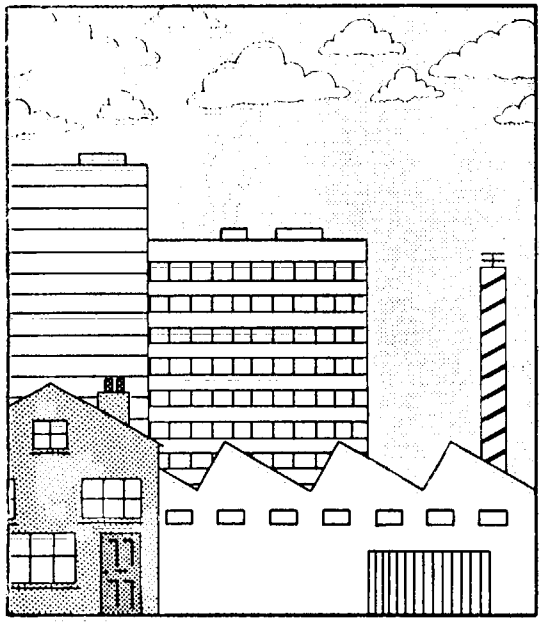
International Conference

INDOOR AND AMBIENT AIR QUALITY

13-15 June 1988



Imperial College
London

2028370043

February 1988

Secretariat
c/o Professor R. Perry (Chairman)
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International Conference on Indoor & Ambient Air Quality
Imperial College, London, UK, 13-15 June 1988

Enclosed please find the preliminary programme for the International Conference on Indoor & Ambient Air Quality which is to be held in London 13-15 June 1988. The papers are to be presented in the following sections:

- Overview Papers
- Environmental Tobacco Smoke & Passive Smoking
- Risk Assessment & Health
- Indoor Air Quality with respect to Ventilation & Dispersion - Sick Building Syndrome
- Indoor Air Chemistry - Specific Chemicals
- Airborne Bacteria
- Architectural and Design Criteria
- Air Quality Monitoring

As it is anticipated that a number of additional papers will be included in the final programme, this will be published and distributed in a few weeks time.

Already we have indications that this will be a well attended meeting and we are looking forward to a worthwhile scientific and technical discourse.

Yours sincerely,

Roger Perry

R. Perry
Chairman

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A INDOOR & AMBIENT AIR QUALITY

- Comparative evaluation of indoor and ambient air quality - Legislation.
  Dr M.J. Suess
  WHO Regional Office for Europe, Denmark

- Comparative evaluation of indoor and ambient air quality - chemical considerations.
  Dr R.M. Harrison, I. Colbeck & A. Simmons
  Institute of Aerosol Science, University of Essex, UK

- Comparative criteria for indoor and ambient air quality - biological considerations.
  Dr N.J.B. Bell, Imperial College, London, UK

- Modelling the dispersion of airborne pollutants in the indoor environment.
  T.B. Hansen, N.O. Breum*, J.S. Markvorsen & J. Hansen
  COWIconsult, Denmark
  *Danish National Institute of Occupation Health, Denmark

- Biomass fuel combustion and indoor air quality in developing countries.
  Dr Jan S.M. Boleij
  Wageningen Agricultural University, The Netherlands

- Air pollution by selected organics and photooxidants in the lower Athens atmosphere.
  Dr Elvira Tsani-Bazaca
  Athens, Greece

- Reduction in the inhalation dose by staying indoors.
  Jørn Roed
  Risø National Laboratory, Denmark

- Spreading of combustion products from side wall balanced flue terminals.
  Ir. W.H.V. van Heugten
  Duth VEG-Gasinstituut, The Netherlands

B ENVIRONMENTAL TOBACCO SMOKE & PASSIVE SMOKING

- The physical behaviour of sidestream tobacco smoke under ambient conditions.
  J.N. Pritchard, A. Black & J.J. McAughey,
  Harwell Laboratory, UK

- The analysis of the contribution of ETS to indoor air.
  C.J. Proctor
  BAT (UK & Export) Ltd, Southampton, UK

- Prediction of the build-up and decay of ETS components by mathematical modelling.
  D.P. Robinson & N.D. Warren
  BAT (UK & Export) Ltd, Southampton, UK

- Collection and analysis of Solanesol as a tracer of environmental tobacco smoke (ETS).
  Dr Michael W. Ogden, & Katherine C. Maiolo
  R.J. Reynolds Tobacco Co., USA

- ETS concentrations on the different conditions of ventilation and smoking regulation.
  Prof T. Sterling
  Vancouver, Canada

- Environtmental tobacco smoke in the work place environment.
  M. Hunter, P.W.W. Kirk, J.N. Lester & R. Perry
  Imperial College, London, UK

- A facility for the sensory evaluation of environmental tobacco smoke.
  Dr C.B. Kurtz & M.R. Savoca
  R.J. Reynolds Tobacco Company, Winston-Salem, USA

- Tobacco Smoke and Passive Smoking.
  Dr S. Shanmuganandan
  Madurai Kamaraj University, India.

- The build-up and decay of environmental tobacco smoke constituents as a function of room conditions.
  R.R. Baker, P.D. Case & N.D. Warren
  BAT (UK & Export) Ltd, Southampton, UK

- Assessing Exposure to Environmental Tobacco Smoke.
  Dr D.J. Eatough, Brigham Young University, Provo, USA

- Assessment of ETS impact on office air quality.
  Dr J. Jacques Piade, P.M. Europe, Switzerland

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C RISK ASSESSMENT & HEALTH

Environmental Tobacco Smoke and Passive Smoking.
Dr T. Hirayama
Institute of Preventive Oncology, Tokyo Japan

An alternative explanation for the increased risk of lung cancer in non-smokers married to smokers.
P.N. Lee
Sutton, UK

Overview presentation on the Health Consequences of Environmental Tobacco Smoke.
Dr Barbara S. Hulka
The University of North Carolina at Chapel Hill, USA

Application of physiological pharmacokinetic modeling to the design of human exposure studies with environmental tobacco smoke.
N.J. Balter[1] & Dr S.L. Schwartz[1] & D.J. Eatough[2]
[1]Georgetown University Medical Center, USA
[2]Brigham Young University, Provo, Utah, USA

Quantitative and qualitative differences in tobacco smoke uptake between active and passive smoking.
G. Scherer[1], K. Westphal[1], M. Sorsa[2] and F. Adlkofer[1]
[1]Forschungsgesellschaft Rauchen und Gesundheit mbH, Hamburg, FRG
[2]Institute of Occupational Health, Helsinki, Finland

Age as a modifying factor in the association between lung cancer in non-smoking women and their husbands' smoking status.
S.J. Kilpatrick
Medical College of Virginia, USA

Health effects of passive smoking in the workplace.
Dr W. Allan Crawford
Seaforth, NSW, Australia

Design, evaluation and implications of a study 'Intervening in the Tobacco Habits of Rural Indian Population'.
Dr M.B. Aghi
Tata Institute of Fundamental Research, Bombay, India

Passive smoking in infarcted patients: role of indoor exposure.
Dr A. Leone
City Hospital, Castelnuovo, Italy

An international survey of the health effects of involuntary tobacco smoke exposure.
Dr M.J. Fisher
Stone Mountain, Georgia, USA

Cotinine concentrations in urine during early childhood with smoking parents at home.
Dr J. St Jordanov, P. Miteva, S. Romanova,
Research Institute of Pediatrics, Sofia, Bulgaria.

Effect of active and passive tobacco inhalation on the bronchopulmonary function.
Dr M. Kentner
Institute für Arbeits-und Sozial-Medizin, Erlangen, FRG

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C RISK ASSESSMENT & HEALTH Continued

Lung function and bronchial reactivity of parents and children.
Dr J. Kuehr,
Freiburg, FRG

Transplacental smoking.
Dr M. Sorsa
Institute of Occupational Health, Helsinki, Finland

Never smoke lung cancer deaths from exposure to ETS.
A. Arundel, T. Sterling & J. Weinkam
Simon Fraser University, Canada

Exposure of hamsters and rats to sidestream smoke of cigarettes: preliminary results of a 90-day inhalation study.
Dr F. Adlkofer[1], G. Scherer[1], R. Wenzel-Hartung[2], H. Brune[2] and C. Thomas[3]
[1]Forschungsgesellschaft Rauchen und Gesundheit mbH, FRG
[2]Biologisches Laboratorium , Hamburg, FRG
[3]Pathologisches Institut, Marburg/Lahn, FRG

Simultaneous nicotine and cotinine levels in plasma and urine as an index of environmental tobacco smoke uptake.
Dr Shunro Itani[1], Eigo Higashi[1] & Yoshiharu Shimizu[2]
[1]Kyoto Senbai Hospital, Japan
[2]Saitama Medical University, Japan

Impact of a smoking policy in Canadian Government workplace.
L. Ouimet
Health Promotion Directorate, Ottawa, Canada

Passive smoking, young people and parents.
Prof C. Arciti
Instituto Nazionale per la Ricerca sul Cancro, Genova, Italy

Sulfur hexafluoride as a surogate for volatilization of organics from indoor water uses.
See E →
N.J. Giardino, J.B. Andelman
University of Pittsburgh, USA
J.E. Borrazzo, C.I. Davidson
Carnegie Mellon University, Pittsburgh, USA

Health effects of indoor nitrogen dioxide pollution.
Dr L.J. Dijkstra, D. Houthuijs, I. Akkerman, B. Brunekreef
University of Wageningen, The Netherlands

Indoor air quality - a relevant factor in human exposure.
Dr M. Fugas
Institute for Medical Research & Occupational Health, Zagreb, Yugoslavia

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D INDOOR AIR QUALITY WITH RESPECT TO VENTILATION AND [illegible]PERSION - SICK BUILDING SYNDROME

- Ventilation, health & energy conservation. A workable compromise.
  Dr G.J. Robertson
  Acva Atlantic Inc., Fairfax, USA

- The relationship between passive cigarette smoke exposure in office workers and symptoms of "Building Sickness".
  A.S. Robertson[1], P. Sherwood Burge[2], A. Hedge[3], S. Wilson[4], J. Harris Bass[5]
  [1]University of Birmingham, UK
  [2]East Birmingham Hospital, UK
  [3]Cornell University, USA
  [4]Building Use Studies, London, UK
  [5]Robert Matthew, Johnson-Marshall, London, UK

- A global approach to investigate indoor air quality and performance of the ventilation system.
  Prof van Hiep Nguyen, N. Goyer, J. Lavoie
  Institut de recherche en santé et en sécurité du travail du Québec, Canada

- Calculated and measured indoor radon concentrations in the house with mechanical exhaust ventilation.
  H. Kokotti, P. Kalliokoski & T. Raunemaa
  University of Kuopio, Finland

- Comparison of formaldehyde and radon levels in different ventilation systems.
  Tiina Reponen, H.M. Kokotti, T. Savolainen, & R. Raunemaa
  University of Kuopio, Finland

- IAQ guidelines.
  D.S. Walkinshaw
  Environmental Health Centre, Ottawa, Canada

- Air quality and symptoms in a sick library ventilated with or without return
  B. Berglund[1], L. Lundin[1], C. Morath[1], I. Johansoon[2] & T. Lindvall[2]
  [1]University of Stockholm, Sweden
  [2]National Institute of Environmental Medicine & Karolinska Institute, Sweden

→ SEE G

- Quantification of air quality by the new Olf and Decipol units.
  P.O. Fanger
  Technical University of Denmark, Lyngby, Denmark

- Indoor air pollution due to emission from wood burning stoves - an overview.
  Dr A. Mandal & A.K. Mandal
  Delhi, India

E INDOOR AIR CHEMISTRY - SPECIFIC CHEMICALS

- Evaluating the significance of asbestos in air: lessons for assessment of other pollutants.
  Dr B.T. Commins
  Maidenhead, UK

- Environmental Asbestos.
  Dr A.P. Rood
  Health & Safety Executive, London, UK

- Pathways and behaviour of semi-volatile chemicals in enclosed spaces.
  I.L. Gebefuegi & F. Korte
  Institut fuer Oekologische Chemie, Neuherberg, FRG

- Typical pollutant concentrations in public buildings.
  E.M. Sterling & C.W. Collett,
  Theodor D. Sterling Ltd., Vancouver, Canada

- Levels of toxic heavy metals (Hg, Cd, As) in biofluids and tissues of staff in academic chemical laboratories and correlation to the environmnent quality.
  M. Koupparis, A. Calokerinos, A. Koutsodimou & Dr P.A. Siskos
  University of Athens, Greece

- Odour reduction by biological soil filters.
  B. Berglund, U. Berglund & L. Lundin
  University of Stockholm, Sweden.

- Sulphur hexafluoride as a surrogate for volatilization of organics from indoor water uses.
  N.J. Giardino[1], J.B. Andelman[1], John E. Borrazzo[2] & Cliff I. Davidson[2]
  [1]University of Pittsburgh, USA
  [2]Carnegie Mellon University, USA

→ SEE C

- Indoor Chemistry of Po-218.
  P.K. Hopke,
  University of Illinois, USA

- A study of indoor radon levels in dwellings.
  Dr G. Jönsson
  University of Lund, Sweden

- Sources and concentrations of formaldehyde in household dusts.
  V.M. Brown, Dr D.R. Crump & D. Gardiner
  Department of the Environment, Building Research Establishment, UK

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F AIRBORNE BACTERIA/FUNGI

- Fungal Allergens dispersed by air-conditioning filters.
  J.H. Elixmann[1], W. Jorde[1], M. Schata[1] & H.P. Linskens[2]
  [1]GAF-Gesselschaft für angewandte u. experimentelle Allergie-forschung mbH, Mönchengladbach, FRG
  [2]Förderverein Allergieforschung Mönchengladbach FRG

- Relationship between home dampness, airborne mould propagules and guanine levels in housedust.
  P. Fischer[1,2], A. Verhoeff[2], B. Brunekreef[1,3], J.S.M. Boleij[1], J. van Wijnen[2] & E. van Reenen[2]
  [1]Agricultural University Wageningen, The Netherlands
  [2]Municipal Health Service, Amsterdam, The Netherlands
  [3]Centraal Bureau voor Schimmelcultures, Baarn, The Netherlands

- Enumeration of airborne micro-organisms in work environments.
  Dr B. Crook & J. Lacey,
  Rothamsted Experimental Station, UK

- VOCs and fungi.
  D.S. Walkinshaw
  Environmental Health Centre, Ottawa, Canada

- Enumeration and identification of airborne viable mould propagules in houses. A field comparison of selected techniques.
  Dr A.P. Verhoeff[1], J.H. Van Wijnen[1], P. Attwood[2], J.S.M. Boley[2], B. Brunekreef[2], E.S. Van Reenen[3], R.A. Samson[3]
  [1]Municipal Health Service, Amsterdam, The Netherlands
  [2]Agricultural University, Wageningen, The Netherlands
  [3]Centraal Bureau voor Schimmelcultures, Baarn, The Netherlands

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G ARCHITECTURAL & DESIGN CRITERIA

- Architectural and design considerations with respect to indoor air quality.
  P. Burberry, UMIST, Manchester, UK

- Control of Legionnaires Disease.
  P. O'Sullivan, UWIST, Cardiff, UK

- Environmental quality in energy efficient office buildings - architectural design considerations
  B. Palmquist[1] & E.M. Sterling[2]
  [1]The Hulbert Group B.C. Ltd., Vancouver, Canada
  [2]Vancouver, Canada

- NO_2 concentrations in residences.
  Mr K. Sega,
  Institute for Medical Research & Occupational Health, Zagreb, Yugoslavia

- Adverse indoor climate - a question about imperfect management or technology.
  Prof E. Rødahl
  The Norwegian Institute of Technology, Norway

- Indoor air composition in office rooms with central air supply.
  Dr E. Rohbock, H. Müller & T. Zingsheim
  Battelle-Institut, Franfurt, FRG

- Thermal confort of operating team and thermal balance of anaesthetized patients in operating theatres with and without airconditioning.
  H. Ohgke, U. Dormans, A. Schaeffler, Dr J. Beckert
  Institut für Hygiene, Lübeck FRG

- Climate in hospitals.
  L. Pöllmann
  Institut für Arbeitsund Sozial Medizin, Giessen, FRG

- Quality control of indoor thermal state of heated dwellings.
  D. Petrás
  SVF SVST, Bratislava, Czechoslovakia

- Salient factors influencing the level of volatile organic compounds indoor.
  P. Wolkoff
  National Institute of Occupational Health, Denmark

- Air quality and symptoms in a sick library ventilated with or without return air.
  B. Berglund[1], L. Lundin[1] & C. Morath[1], I. Johansoon[2], T. Lindvall[2]
  [1]University of Stockholm, Sweden.
  [2]National Institute of Environmental Medicine & Karolinska Institute, Stockholm, Sweden.

→ SEE D.

- Textile floor coverings and indoor air pollution.
  E. Schröder
  Deutsches Teppich-Forschungsinstitut, Aachen, FRG

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H ANALYTICAL METHODOLOGY

- A general purpose scheme for classifying lead-bearing particles by SEM/ECX.
  A. Hunt[1], J. Watt[1], D. Johnson[2] & I. Thornton[1]
  [1]Imperial College, London, UK
  [2]College of Environmental Science & Forestry, SUNY, Syracuse, USA

- Identification of noxious agents in indoor air.
  S. Waldner-Sander
  DEKRA Institute für Sicherheit, Stuttgart, FRG

- Evaluation of a new Formaldehyde passive diffusion monitor at high and low relative humidity.
  M. Koocher, H.Q. Luong & J.A. Tremblay
  Crystal Diagnostics Inc., Woburn, USA

- Odourants diffusion of a foundry by field and wind tunnel experiments.
  [1]W.-J. Kost & Dr E. Plate[2]
  [1]DEKRA-Institute für Sicherheit, Stuttgart, FRG
  [2]Universität Karlsruhe, FRG

- Design of Indoor Quality Study.
  D. M. Kollander
  USEPA, Washington, USA

- Development and application of a thermal desorption-based analytical method for the determination of nicotine in indoor environments.
  R.A. Jenkins, C.V. Thompson & C.E. Higgins
  Oak Ridge National Laboratory, Tennessee, USA

- Development of a microcomputer program for predicting residential nitrogen dioxide concentrations.
  C.P. Wray & G.K. Yuill
  C.K. Yuill & Associates Ltd., Winnipeg, Canada

- An automated system for the analysis of organic airborne vapours.
  G.M. Broadway
  Perkin Elmer Ltd, Beaconsfield, UK

- Determination of mercury levels in the atmosphere of workplace and the biological samples of dental practitioners.
  M.B. Korkovelou, P.A. Siskos, A.X. Apostolopoulos, T.A. Athanassouli
  University of Athens, Greece

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